



TITLE:

画像解析から得られる火山岩塊放出のダイナミクス

AUTHOR(S):

常松, 佳恵

CITATION:

常松, 佳恵. 画像解析から得られる火山岩塊放出のダイナミクス. 2017: 共同研究（一般研究集会）28K-07.

ISSUE DATE:

2017-02

URL:

<http://hdl.handle.net/2433/227485>

RIGHT:

画像解析から得られる 火山岩塊放出のダイナミクス Dynamics of Ballistic Transport Based on the Image Analysis

常松 佳恵

山梨県富士山科学研究所 火山防災研究部

Conclusion

- We obtained the data of 29 trajectories from the video footage taken on April 25, 2015
- The trajectories are analyzed using frame-by-frame images. The mean velocities at the vent were 1.3 m/s in horizontal direction and 9.4 m/s in vertical direction. This values are quite small compared to the reported Strombolian velocities.
- Using particle density = 475 kg/m^3 , flow velocity is estimated from 40 to 50 m/s for the first trajectory, which is larger than the ejection velocity of this trajectory.